

REQUEST FOR ACCESS OF ABANDONED APPLICATION UNDER 37 CFR 1.14(a)

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In re Application of _____

Application Number

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08/879475

7/20/97

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2111

Shin

Paper No. 1320

Assistant Commissioner for Patents
 Washington, DC 20231

I hereby request access under 37 CFR 1.14(a)(3)(iv) to the application file record of the above-identified ABANDONED application, which is: (CHECK ONE)

___ (A) referred to in United States Patent Number 5986435 column _____

___ (B) referred to in an application that is open to public inspection as set forth in 37 CFR 1.11, i.e., Application No. _____ filed _____ on page _____ of paper number _____

___ (C) an application that claims the benefit of the filing date of an application that is open to public inspection, i.e., Application No. _____ filed _____ or

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Please direct any correspondence concerning this request to the following address:



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United States Patent [19]

Koenck

[11] Patent Number: 5,986,435

[45] Date of Patent: *Nov. 16, 1999

[54] METHOD OF UTILIZING A BATTERY POWERED SYSTEM HAVING TWO PROCESSORS

3,740,636 6/1973 Hogrefe et al. .
3,754,182 8/1973 Morris et al. .

(List continued on next page.)

[75] Inventor: Steven E. Koenck, Cedar Rapids, Iowa

OTHER PUBLICATIONS

[73] Assignee: Intermec IP Corp., Woodland Hills, Calif.

[*] Notice: This patent is subject to a terminal disclaimer.

Norand Corporation Specification Sheet for Norand 101-XL Portable Data System, 1978.

Norand Corporation Brochure regarding Norand "Sprint 100" Portable Order Entry Terminal, 1979.

Norand Corporation Specification Sheet for Norand 101XL "Alpha-1" Portable Data System, 1980.

[21] Appl. No.: 09/205,518

Primary Examiner—Peter S. Wong

Assistant Examiner—K. Shin

[22] Filed: Dec. 3, 1998

Attorney, Agent, or Firm—McAndrews, Held & Malloy, Ltd.

Related U.S. Application Data

[63] Continuation-in-part of application No. 09/082,061, May 20, 1998, Pat. No. 5,889,386, which is a continuation of application No. 08/879,475, Jan. 20, 1997, which is a continuation of application No. 08/061,665, Nov. 22, 1995, abandoned, which is a continuation of application No. 08/134,881, Oct. 12, 1993, Pat. No. 5,508,599, which is a continuation of application No. 07/769,337, Oct. 1, 1991, Pat. No. 5,278,487, which is a continuation of application No. 07/544,230, Jun. 26, 1990, abandoned, which is a division of application No. 07/422,226, Oct. 16, 1989, Pat. No. 4,961,043, which is a division of application No. 07/168,352, Mar. 15, 1988, Pat. No. 4,885,523, which is a continuation-in-part of application No. 06/944,503, Dec. 18, 1986, Pat. No. 4,737,702, which is a continuation-in-part of application No. 06/876,194, Jun. 19, 1986, Pat. No. 4,709,202, which is a division of application No. 06/797,235, Nov. 12, 1985, Pat. No. 4,716,354, which is a continuation-in-part of application No. 06/612,588, May 21, 1994, Pat. No. 4,553,081, which is a continuation-in-part of application No. 06/385,830, Jun. 7, 1982, Pat. No. 4,455,523.

[57] ABSTRACT

[51] Int. Cl.⁶ H02J 7/00
[52] U.S. Cl. 320/136; 324/427
[58] Field of Search 320/136; 324/426, 324/427

In an exemplary embodiment, a battery conditioning system monitors battery conditioning and includes a memory for storing data based thereon; for example, data may be stored representative of available battery capacity as measured during a deep discharge cycle. With a microprocessor monitoring battery operation of a portable unit, a measure of remaining battery capacity can be calculated and displayed. Where the microprocessor and battery conditioning system memory are permanently secured to the battery so as to receive operating power therefrom during storage and handling, the performance of a given battery in actual use can be accurately judged since the battery system can itself maintain a count of accumulated hours of use and other relevant parameters. In the case of a nonportable conditioning system, two-way communication may be established with a memory associated with the portable unit so that the portable unit can transmit to the conditioning system information concerning battery parameters (e.g. rated battery capacity) and/or battery usage (e.g. numbers of shallow discharge and recharge cycles), and after a conditioning operation, the conditioning system can transmit to the portable unit a measured value of battery capacity, for example.

[56] References Cited

U.S. PATENT DOCUMENTS

3,683,258 8/1972 Harboun .

26 Claims, 24 Drawing Sheets

